

Title (en)

DENSE PHASE POWDER PUMP AND CORRESPONDING OPERATING PROCESS

Title (de)

PULVERDICHTSTROMPUMPE UND ENTSPRECHENDES BETRIEBSVERFAHREN

Title (fr)

POMPE DE TRANSPORT DE POUDRE EN PHASE DENSE ET PROCEDE DE FONCTIONNEMENT CORRESPONDANT

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Application

EP 14711243 A 20140318

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Abstract (en)

[origin: WO2014161717A1] The invention relates to a powder conveyor (100) having a pneumatically actuated dense phase powder pump (1) and a pressure controller (91). The dense phase powder pump (1) comprises at least one conveyor chamber (4) having a powder inlet valve (7) and a powder outlet valve (8). The pressure controller (91) can be used to adjust and maintain a set pressure on the at least one conveyor chamber (4) of the dense phase powder pump (1) that is or can be previously defined and/or to adjust and maintain an actuation pressure on the powder inlet valve (7) or the powder outlet valve (8) that is or can be previously defined. According to the invention, the powder conveyor further comprises a gas flow detection device (D1, D2, D3, D4) for detecting or determining a quantity of gas that is fed or removed per time unit when the set pressure is adjusted and maintained on the at least one conveyor chamber (4) or a quantity of gas that is fed to the powder inlet valve (7) or the powder outlet valve (8) per time unit when the actuation pressure is adjusted and maintained. An evaluation device (92) compares at least one detected or determined gas flow value with a corresponding set value and automatically generates an error and/or alarm signal when a deviation is detected.

IPC 8 full level

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